

HEAT AND X-RAY AID IN FIGHT ON CANCER

Dr. Wood Tells of Experiments
Being Conducted at Colum-
bia University.

STILL SEEK FOR CAUSES

Use of Radium Limited Be-
cause of Prohibitive Cost—
Diagnosis Important.

Experiments touching the nature and curative treatment of tumors and cancer are being conducted at Columbia University under the direction of Dr. Francis Carter Wood, director of the George Crocker special research fund laboratories. In a report made public yesterday Dr. Wood discussed the results of experiments which combined heat and the X-ray in the treatment of the mysterious ailments. Interesting results were obtained by combining heat and the X-ray, but Dr. Wood states that it is not possible as yet to determine whether findings obtained from experiments on animals can be transferred to human beings.

"Research has shown," said Dr. Wood, "that the unknown agents which lie behind the production of cancer apply both to mice and men. That the cause, or what is more probable the causes, of cancer will be discovered in a short time is more than doubtful. Ultimate solution may have to wait upon advances in our knowledge of the conditions of growth and life in cells as yet not only undiscovered but not even fore-shadowed."

"In the meantime much remains to be done which will be of great help in the diagnosis and treatment of cancer, and this is, after all, the more important as far as the human race is concerned than is the ultimate knowledge of the cause of the disease, for even should the cause be discovered it does not necessarily follow that a remedy will be immediately forthcoming."

How the X-Ray Acts.
Discussing the application of the X-ray to tumorous growths Dr. Wood said:

"The results permit the conclusion that while, as has long been known, certain human tumors of low malignancy can unquestionably be cured, many of the new growths which involve the internal organs require so large an amount of X-ray that their proper treatment would place the life of the patient in jeopardy. If a tumor is very susceptible to radiation it may be possible to effect a cure by approaching the maximum dose, but some tumors are very much more resistant than others, and the highly resistant varieties are still beyond any real and permanent benefit from radium or X-ray treatment."

"Among these may be included most of the tumors of the digestive tract and those of the lungs, liver, kidney and spleen. While, therefore, a certain amount of improvement often follows raying, even in the case of the more resistant tumors, no permanent cure of these types as a result of treatment either by radium or by X-ray can at present be hoped for."

"The lethal dose of radium having already been determined in this laboratory, comparative studies were possible, and these seem to show that there is but little if any difference between the effects of the two agents when applied under strictly comparable conditions. The advantages of radium lie in its portability and in the fact that it can be inserted into the tumor itself, while the X-ray is of necessity applied only externally and, therefore, through the skin and other tissues covering the tumor. In the use of X-ray an additional danger lies in the high voltage which must be used in producing rays which will penetrate in sufficient concentration to the inside of the tumor without damaging the skin."

Radium Cost Prohibitive.

"On the other hand, the cost of a sufficient quantity of radium is in many instances prohibitive, while a satisfactory type of X-ray apparatus is available in all the larger cities. With the limited amount of radium now available it is probable that the use of this agent will in the future be confined very largely to institutions with endowments sufficient to purchase the large quantities necessary. An interesting phase of this financial problem is the purchase by New York State of \$250,000 worth of radium for the State Institute for the Study of Malignant Disease at Buffalo, in order that this material agent may be placed at the disposal of those too poor to pay even a fraction of the interest charges on so large a sum."

"Faced by the dilemma of the natural limitations to the amount of X-ray which can be given to a patient, several members of the staff have been carrying on a series of experiments in combining maximum doses with other physical agents which act destructively on tumor cells, in the hope that large amounts of energy may thus be set free inside the tumor to destroy the cells and yet the patient's life be not jeopardized."

"One form of such energy is heat, and experiments on animals so far seem to indicate that it is possible by the application of suitable electric currents to heat the substance of a tumor so as to produce considerable destructive action without in any way injuring the patient. A dose of X-ray necessary to kill a tumor in an animal usually causes death of the animal in the course of a few days, but with a combination of heat and raying better results have been obtained. Whether these findings can be transferred with success to human beings is not possible to state at the present time."

"The question of diagnosis in cancer is vital, for with the knowledge that cancer in its incipency is always a local disease and could be removed without danger of return could a diagnosis be made, everything which leads to an improvement in our diagnostic ability is a real advance toward the control of the disease. One of the important methods for early diagnosis is the removal of a small fragment for microscopic study. By many this has been thought to be a hazardous procedure, but in a paper published from this laboratory it has been shown that, in an animal at least, such incision does not cause any distribution of the tumor, and that therefore this method of determining the nature of a small tumor not otherwise diagnosable may be safely employed."

Black Caracul Coats
36-inch Length
\$125

Wanted Models
To display fur garments. Only experienced high class girls need apply.

Fire Record

A. M. 125-129 East 60th st., Henry J. Lons. Trifling.
125-129th st. and Hillside av., Unknown, vacant lot; unknown. Unknown.
126-125 Allen st., Morris Langer. Unknown.
A. M. 201-161th st. and Grand Concourse, The Bronx; unknown, Van Bu. Trifling.
236-Weaver st. and Eastchester road, The Bronx; brush, vacant lot; unknown. Unknown.
245-Southern Boulevard and Leggett av., The Bronx; brush, vacant lot; unknown. Unknown.
1-63-Broadway and 1st av., Unknown, vacant lot; unknown. Unknown.
120-Henry and Trueman av., The Bronx; brush, vacant lot; unknown. Unknown.
200-100 West 30th st., Catholic Club. Trifling.

CONBOY HEADS IRISH RELIEF.

Chairman of Local Committee in \$10,000,000 Drive.

Martin Conboy, who was director of the selective draft in this city, was made chairman yesterday of the Greater New York committee of the American Committee for Relief in Ireland, and headquarters were opened at 109 West Forty-second street. Organization of committees in each borough is under way in a campaign to raise \$10,000,000.

The borough chairmen are James J. Hoey, vice-president Continental Trust Company, Manhattan; Harry T. Woods, Brooklyn; Edward L. Glennon, Bronx; Justice Morgan M. L. Ryan of Children's Court, Queens.

OIL TANKER LAUNCHED.

PHILADELPHIA, Feb. 19.—The 12,600 deadweight ton oil tanker *Cerro Eban*, built for the Pan-American Petroleum and Transport Company, was launched at the Sun Shipyard at Chester today. Mrs. Eliza G. Harwood, New York, wife of P. H. Harwood, vice-president of the Pan-American Petroleum and Transport Company, was sponsor.

STATE ATTACKS I.C.C. FARE RAISE ORDER

Complaint Alleges Violation of Two Constitutional Amendments.

INJUNCTION IS SOUGHT

Attorney-General Newton Says He Will Carry Case to Supreme Court.

NORWICH, N. Y., Feb. 19.—The constitutionality of the Interstate Commerce act was assailed and the right of the Interstate Commerce Commission to issue an order permitting railroads

operating in New York State to increase fares within the State 50 per cent. was questioned by Attorney-General Charles D. Newton in a bill of complaint filed in the United States District Court here today. The action was for the purpose of enjoining the commerce commission from enforcing its increased rate order. It was the first move by the State's Attorney-General in the Federal courts to force a review of the determination of the Interstate Commerce Commission by the United States Supreme Court. A companion action, with the same ultimate design, is pending in the State courts.

The Attorney-General alleged that "there were no facts before the commerce commission justifying its report, findings and order, and that the record wholly lacks any foundation for the making of such report, findings and order."

He further charged that the order itself and the provisions of the Interstate Commerce act under which the commission attempted to sanction the

increase violated the Tenth Amendment to the United States Constitution in that they invaded powers reserved to the State to regulate intrastate commerce; the Fifth Amendment, by imposing a direct tax without the appropriation required, as well as other constitutional provisions designed to safeguard purely State governmental functions.

At the same time Attorney-General Newton requested the Federal court to restrain the commission from instituting actions against the railroads for the collection of penalties for violation of the order to increase passenger fares.

"I feel confident of success in this action," the Attorney-General declared today. "Shortly after the increased fare order was made by the Interstate Commerce Commission I declared it was my intention to carry the case to the United States Supreme Court for determination. The aim of the present action is to obtain this final decision as soon as possible."

CONNOLLY GAVE NO NAMES TO WHITMAN

Queens President Did Not Mention Officials in Contract Investigation.

Ex-Gov. Whitman and his assistant, Arthur M. King, spent part of yesterday studying the statement and papers relating to sewer contracts in Queens, which Borough President Maurice Connolly gave them when they visited his home in Corona on Friday. They would not talk about the matter. Mr. Whitman said he would not "deny or affirm" a publisher's report that the Connolly statement involved certain members of the Board of Estimate. He

merely admitted that he had spent three hours with Mr. Connolly, who is ill and has been confined to his home for several weeks.

Mr. Connolly dictated this for publication: "Gov. Whitman called at my home yesterday upon my invitation. There has been so much in the nature of innuendo published in the press that I felt it necessary that doubt be entirely dispelled."

"The evidence of Capt. James Rice, chief engineer of Queens, before the Board of Estimate last Wednesday established that not only was there no monopoly in the borough, but that competition was unusually complete and that the taxpayers' interests were scrupulously guarded at all times."

"Notwithstanding this I felt that Gov. Whitman should be in possession of all the information I could give him, and I accordingly requested that he see me personally, or through an assistant, either in New York or at my home. He was kind enough to call upon me himself, and I was glad to furnish him the true facts."

"In our conversation the names of no

city officials or subordinates in my office were discussed or involved."

In the hearing before the Board of Estimate, which has been having its own investigation of city contracts, Engineer Rice said that money had been saved by the use of pre-cast, or lock joint, sewer pipe in recent construction and gave President Connolly credit for defeating a monopoly. Mr. Connolly's handling of the contracts had been attacked previously by Comptroller Craig, and evidence regarded as worthy of investigation had been turned over to Mr. Whitman by Melior Steinbrink, special counsel of the Board of Estimate's inquiry into city contracts.

JURY INSPECTS REFORMATORY.

MIDDLETOWN, N. Y., Feb. 19.—The Orange County Grand Jury, which has been holding sessions at Goshen in connection with the trial term of the Supreme Court, has been to the New York Reformatory at New Hampton, where it made a thorough investigation. A report is expected next week, when the jury will complete its work and hand up findings to Justice A. H. P. Seeger, who is presiding.

MANUFACTURER'S \$1,000,000 STOCK OF FUR COATS IN A DIRECT SALE FROM WHOLESALE TO CONSUMER

<p>Furs bearing the Jackman Label</p> <p>are like pieces of silver stamped "Sterling." They are good all the way through and they give good service.</p> <p>This sale is proving to be the biggest sale event of one line of merchandise that has ever been consummated in New York.</p>	<p>William Jackman's Sons, one of the oldest manufacturers of furs in America, nationally known for the high quality of their products, are offering their entire stock of furs direct to the public.</p> <p>Because of the absurdly low prices which have been quoted since this sale started, there are many incredulous people who have not been able to realize that the quality of this merchandise offered is unsurpassed at any price.</p> <p>Thousands of customers who have attended this sale with no intentions of buying have gone away pleased purchasers, and many of them have purchased garments not only for themselves and their immediate needs but for friends and relatives and their future needs.</p>	<p>FREE STORAGE first year on purchases made at this SALE</p> <p>WRAPS of Chinchilla Broadtail Ermine Russian Sable Mink</p>
<p>Kolinsky Full Length Wraps \$500</p>	<p>Hudson Seal or Genuine Mole Wraps Full length \$300 variety of models.</p>	<p>Alaska Seal 40-Inch Length Coats \$775</p>

MEN'S Fur Collared Coats

Finest imported Irish wools, in brown, gray and dark green Heather Mixtures. Collars are of Beaver and Unplucked Otter. These collars alone are worth more than the price at which we are selling these coats, **\$75**

Finest domestic wools in grey, brown and green Heather Mixtures. Also black. Collars are of Hudson Seal, Seal Dyed Otter, Persian Lamb and Nutria. **\$50**

Full Fur Lined Coats of Imported Cloths . . . \$100

<p>French Seal or Bay Seal Wraps Full Length Various Beautiful Models; Linings Equal to Those Used in the Finest Wraps \$125</p>	<p>Russian Pony Coats \$50 (36-inch length) Taupe or Black or Natural Brown PONY COATS with great, deep collar of high grade Dark German Fitch. Siberian Gray Squirrel. Natural Skunk. Natural Raccoon. Genuine Beaver. Natural clear blue Australian Opossum. \$100</p>	<p>Stone Marten Boas \$25 The Ultra-Fashionable scarf to be worn with the Spring Suit.</p>
<p>Black Caracul Coats 36-inch Length \$125</p>	<p>Hudson Seal Coats 45-inch Length in a Superb Quality of Soft Fine Skins. Full Flare, Beautifully Lined, Great Deep Collars and Cuffs of the Best Quality Skunk or Beaver. \$375</p>	<p>Hudson Seal Coats 36-inch Length Soft, Lustrous Skins \$225</p>

<p>Wanted Models To display fur garments. Only experienced high class girls need apply.</p>	<p>Hundreds of Fur Scarfs and Muffs from which to select, in the following furs: Stone Marten, Russian Crown Sable, Fisher Squirrel, Baum Marten, Silver Fox, Skunk, Hudson Bay Sable, Blue Fox, Beaver, Cross Fox, Lynx, Mink, Fitch, Skunk, Taupe, Brown and Mole, Opossum, Black Fox. At prices lower than the raw skins can be bought to-day direct from the trapper</p>	<p>WANTED SALESMEN High class men only, with experience with reputable establishments. Also wholesale salesmen for Denver and Far West territory.</p>
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Sales Rooms Open from 8:30 A. M. to 6 P. M.

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Extra Sales Staff. Quick Service. Prompt Deliveries.

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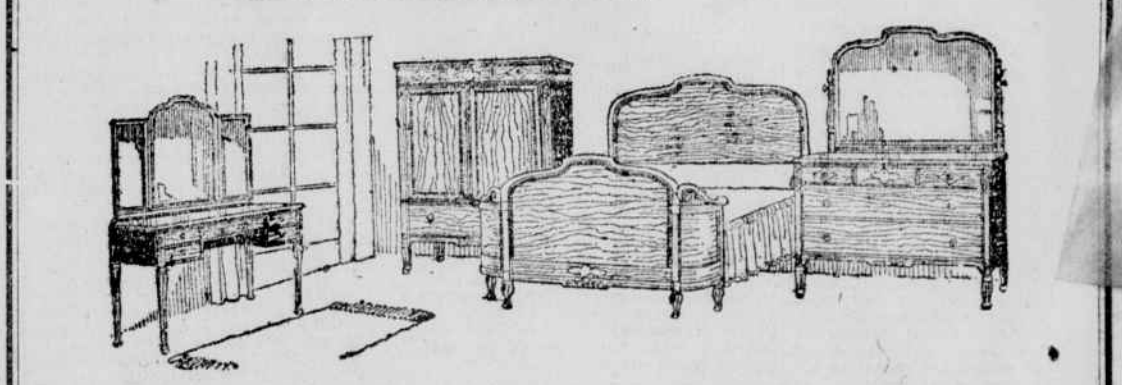
Stern Brothers

West 42nd St. (Between Fifth and Sixth Avenues) West 43rd St.

Drastic Price Reductions now prevailing, form a most convincing, value-giving demonstration in this

February Sale of Fine Furniture

Complete Suites in many instances
At **33 1/3 to 50% OFF** Former Prices



CHAMBER SUITE, 4 pieces (as illustrated), of American Walnut or Mahogany, including 54-inch Bureau, Bow End Bed, Chiffonade and Toilet Table. Formerly \$820.00. **\$410.00**

4 piece Suite in French Grey with glass top. Formerly \$1950.00. **\$1175.00**

5 piece Suite (American Walnut) Twin beds. Formerly \$1845.00. **\$922.50**

8 piece Suite in Antique Ivory; Louis XVI. design. Twin beds. Formerly \$2483.00. Reduced to **\$1575.00**

5 piece Suite in Mahogany; Chippendale design. Twin beds. Formerly \$2000.00. Reduced to **\$1150.00**

LIVING ROOM FURNITURE

3 piece Suite upholstered in Tapestry. Formerly \$500.00. **\$250.00**

Mahogany and Cane Arm Chairs, Tapestry covered. Reg. \$185.00. **\$67.50**

2 piece Suite (Davenport and Arm Chair) in Mahogany and Cane. Upholstered in Tapestry; reg. \$400. **\$250.00**

Vassar Arm Chairs upholstered in Velour and Tapestry. Formerly \$35.00. Reduced to **29.75**

DINING ROOM SUITES

10 piece Suite in American Walnut Formerly \$1135.00. **\$695.00**

10 piece Suite in Mahogany, Formerly \$760.00. **\$450.00**

10 piece American Walnut Suite, Formerly \$5000.00. **2500.00**

(Italian Renaissance. All hand carved. Marble tops.)

An Entirely New Assortment of

EMBOSSED CHINESE RUGS

Perfect in weave—distinctive in design—rich and harmonious in their coloring

Will be offered Monday at the Most Phenomenal Price of

\$265

(Regular \$530 Qualities)

Average size about 9 ft. x 11 ft. 8 in.

Exceptional values also available in special sale groups of

Hearth Size PERSIAN RUGS

\$35 \$40 \$45 \$50

Typical Oriental designs in an extensive variety of useful sizes and well-blended colorings.